Appln No.: 09/960,665

Amendment Dated: October 5, 2005
Reply to Office Action of July 12, 2005

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

## 1-34. (canceled)

- 35. (new) A chemical compound comprising first and second hsp-binding moieties which bind to the pocket of hsp90 with which ansamycin antibiotics bind leading to degradation in proteasomes of a subset of proteins requiring hsp90 for conformational maturation, said binding moieties being connected to one another by a linker, wherein the first and second hsp-binding moieties each retain the ability in the chemical compound to bind to the pocket of hsp90 and lead to degradation in proteasomes of a subset of proteins requiring hsp90 for conformational maturation.
- 36. (new) The chemical compound of claim 35, wherein at least one of the hsp-binding moieties is geldanamycin, and the linker is connected to the 17-carbon of the geldanamycin.
- 37. (new) The chemical compound of claim 36, wherein the linker has a length of 4 to 7 carbon atoms.
- 38. (new) The chemical compound of claim 36, wherein the linker is a substituted carbon chain.
- 39. (new) The chemical compound of claim 38, wherein the linker is a substituted carbon chain incorporating a secondary or tertiary amine.
- 40. (new) The chemical compound of claim 39, wherein the linker is an N-methyl amino linker.
- 41. (new) The chemical compound of claim 35, wherein the linker is a substituted carbon chain.
- 42. (new) The chemical compound of claim 41, wherein the linker is a substituted carbon chain incorporating a secondary or tertiary amine.
- 43. (new) The chemical compound of claim 42, wherein the linker is an N-methyl amino linker.

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- 44. (new) A method for destruction of cells expressing a HER-family tyrosine kinase, comprising administering to the cells a chemical compound comprising first and second hsp-binding moieties which bind to the pocket of hsp90 with which ansamycin antibiotics bind leading to degradation in proteasomes of a subset of proteins requiring hsp90 for conformational maturation, said binding moieties being connected to one another by a linker, wherein the first and second hsp-binding moieties each retain the ability in the chemical compound to bind to the pocket of hsp90 and lead to degradation in proteasomes of a subset of proteins requiring hsp90 for conformational maturation.
- 45. (new) The method of claim 44, wherein at least one of the hsp-binding moieties is geldanamycin, and the linker is connected to the 17-carbon of the geldanamycin.
- 46. (new) The method of claim 45, wherein the linker has a length of 4 to 7 carbon atoms.
  - 47. (new) The method of claim 46, wherein the linker is a substituted carbon chain.
- 48. (new) The method of claim 47, wherein the linker is a substituted carbon chain incorporating a secondary or tertiary amine.
  - 49. (new) The method of claim 38, wherein the linker is an N-methyl amino linker.
  - 50. (new) The method of claim 44, wherein the linker is a substituted carbon chain.
- 51. (new) The method of claim 50, wherein the linker is a substituted carbon chain incorporating a secondary or tertiary amine.
  - 52. (new) The method of claim 51, wherein the linker is an N-methyl amino linker.
- 53. (new) A method for treating cancer in a patient suffering from cancer, comprising administering to the patient a therapeutic composition comprising a chemical compound comprising first and second hsp-binding moieties which bind to the pocket of hsp90 with which ansamycin antibiotics bind leading to degradation in proteasomes of a subset of proteins requiring hsp90 for conformational maturation, said binding moieties being connected to one another by a linker, wherein the first and second hsp-binding moieties each retain the ability in the chemical compound to bind to the pocket of hsp90 and lead to degradation in proteasomes of a subset of proteins requiring hsp90 for conformational maturation.
  - 54. (new) The method of claim 53, wherein the cancer is an HER-positive cancer.

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- 55. (new) The method of claim 54, wherein at least one of the hsp-binding moieties is geldanamycin, and the linker is connected to the 17-carbon of the geldanamycin.
- 56. (new) The method of claim 55, wherein the linker has a length of 4 to 7 carbon atoms.
  - 57. (new) The method of claim 56, wherein the linker is a substituted carbon chain.
- 58. (new) The method of claim 57, wherein the linker is a substituted carbon chain incorporating a secondary or tertiary amine.
  - 59. (new) The method of claim 58, wherein the linker is an N-methyl amino linker.
  - 60. (new) The method of claim 54, wherein the linker is a substituted carbon chain.
- 61. (new) The method of claim 60, wherein the linker is a substituted carbon chain incorporating a secondary or tertiary amine.
  - 62. (new) The method of claim 61, wherein the linker is an N-methyl amino linker.
  - 63. (new) The method of claim 53, wherein the cancer is breast cancer.
  - 64. (new) The method of claim 53, wherein the cancer is ovarian cancer.
  - 65. (new) The method of claim 53, wherein the cancer is pancreatic cancer.
  - 66. (new) The method of claim 53, wherein the cancer is gastric cancer.